

AVIATION TECHNOLOGY

CAREER PATHS

AIRCRAFT MAINTENANCE TECHNICIAN
AIRCRAFT MECHANIC
AIRCRAFT RESTORER
AIRFRAME AND POWERPLANT MECHANIC
HELICOPTER MECHANIC

SALARY

\$75,400*
MEDIAN ANNUAL INCOME

JOB GROWTH

2022-2032: 4%*



SCAN FOR YOUR FUTURE



*2024 Bureau of Labor Statistics
Johnson College does not discriminate with regard to race, color, national origin, sex, or disability.





PROGRAM OBJECTIVE

The Aviation Technology program prepares students as entry-level technicians with the latest information on diagnosis, repair procedures, preventive maintenance, and necessary safety applications in aviation technology. The Aviation Technology program provides students the knowledge and skills outlined in the Federal Aviation Administration's (FAA) Mechanics Airman Certification Standard (ACS). The program prepares students to take the FAA licensure exam for general, airframe, and powerplant knowledge. Students will gain an understanding of aircraft structures, systems, engines, finishes, materials, components, procedures, and operation.

READY. SET. WORK.

- Goal 1:** Graduates will possess the appropriate skills and safety awareness necessary for entry-level employment in the aviation maintenance field.
- Goal 2:** Graduates will gain an understanding of the requirements and responsibilities of being a certificated Federal Aviation Administration's Airframe & Powerplant Mechanic.
- Goal 3:** Graduates will gain the knowledge and skills outlined in the Federal Aviation Administration's Airman Certification Standards required to become a FAA-Certificated Airframe & Powerplant Mechanic.

Applicants are encouraged to arrange a campus visit and a personal information session with a Recruitment Advisor. Appointments may also be made to meet with appropriate faculty and current students.

CAREER OPPORTUNITIES

Graduates of the program typically find jobs as aircraft maintenance technicians, aircraft mechanics, aircraft restorers, airframe and powerplant mechanics (A&P Mechanics), or helicopter mechanics. Graduates can work in general aviation or manufacturing of aircraft components, for a commercial airline, aircraft manufacturer, private company, museum or historical restoration company, or as an entrepreneur.

PROGRAM COURSES

CREDITS

SEMESTER 1

Fundamentals of Electricity & Electronics	3
Electronics Lab	2
Weight & Balance Lab	1
Aircraft Materials, Hardware & Processes	1
Aircraft Materials Lab	2
Computer Aided Design	3
College Algebra I & Trigonometry	3
First-Year Experience	1

SEMESTER 2

Regulations, Inspection Techniques & Forms	2
Aircraft Regulations Lab	2
Aircraft Physics & Math Lab	1
Aircraft Metallic Structures	2
Aircraft Metallic Structures Lab	2
Aircraft Non-Metallic Structures	1
Aircraft Non-Metallic Structures Lab	1
Aircraft Controls, Airframe Inspection and Systems	1
Aircraft Controls, Airframe Inspection and Systems Lab	2
Industry Communication	3

SUMMER

Airframe Environmental, Instrument Lighting & Water Systems	2
Airframe Environmental, Instrument Lighting & Water Systems Lab	2
Customer Service in Our World	3

SEMESTER 3

Airframe Fuel, Electrical, Ice & Fire Control Systems	2
Airframe Fuel, Electrical, Ice & Fire Control Systems Lab	3
Aircraft Reciprocating Engines	3
Aircraft Reciprocating Engines Lab	3
Aircraft Turbine Engines	3
Aircraft Turbine Engines Lab	3

SEMESTER 4

Aircraft Engine, Fire Protection & Electrical Systems	2
Aircraft Engine, Fire Protection & Electrical Systems Lab	3
Aircraft Engine Lubrication, Ignition & Starting, Induction & Fuel Systems	2
Aircraft Engine Lubrication, Ignition & Starting, Induction & Fuel Systems Lab	3
Aircraft Engine Air, Exhaust & Reverser Systems	2
Aircraft Engine Air, Exhaust & Reverser Systems Lab	2
Aircraft Propellers	1
Aircraft Propellers Lab	1
Introduction to Business	3

MINIMUM CREDITS TO GRADUATE 76

This semester layout is based off of a fall start. Students who start in the spring will be required to attend an additional semester to complete their degree.

There may be special admission requirements for this program. Please speak with a Recruitment Advisor by calling **570-702-8856** or visit our website johnson.edu to review our requirements.